

Fe^{2+}

— O — Al — O — Si — O — Al — O — Si — O — Si — O — Al — O — Si — O —

| | | |
O — Al — O — Al — O — Al — O

↓ Aging

Fe^{2+}

— O — Al — O — Si — O — Al — O — Si — O — Si — O — Al — O — Si — O —

| | | |
O — Al — O — Al — O — Al — O

The figure is an infrared (IR) spectrum plot. The y-axis is labeled 'Absorbance' and ranges from 0.05 down to -0.25. The x-axis is labeled 'Wavenumbers (cm⁻¹)' and ranges from 3800 to 3700. Two curves are shown: 'Stabilized ZNX' (the upper curve) and 'ZNX' (the lower curve). Both curves show a broad absorption band between 3800 and 3700 cm⁻¹. A specific peak in this region is labeled 'Al_n-OH Alumina linkage' with an arrow pointing to it. Another peak, labeled 'Si-OH', is indicated at approximately 3650 cm⁻¹. The 'ZNX' curve shows a deeper absorption at the Si-OH peak compared to the 'Stabilized ZNX' curve.

Fig. 3

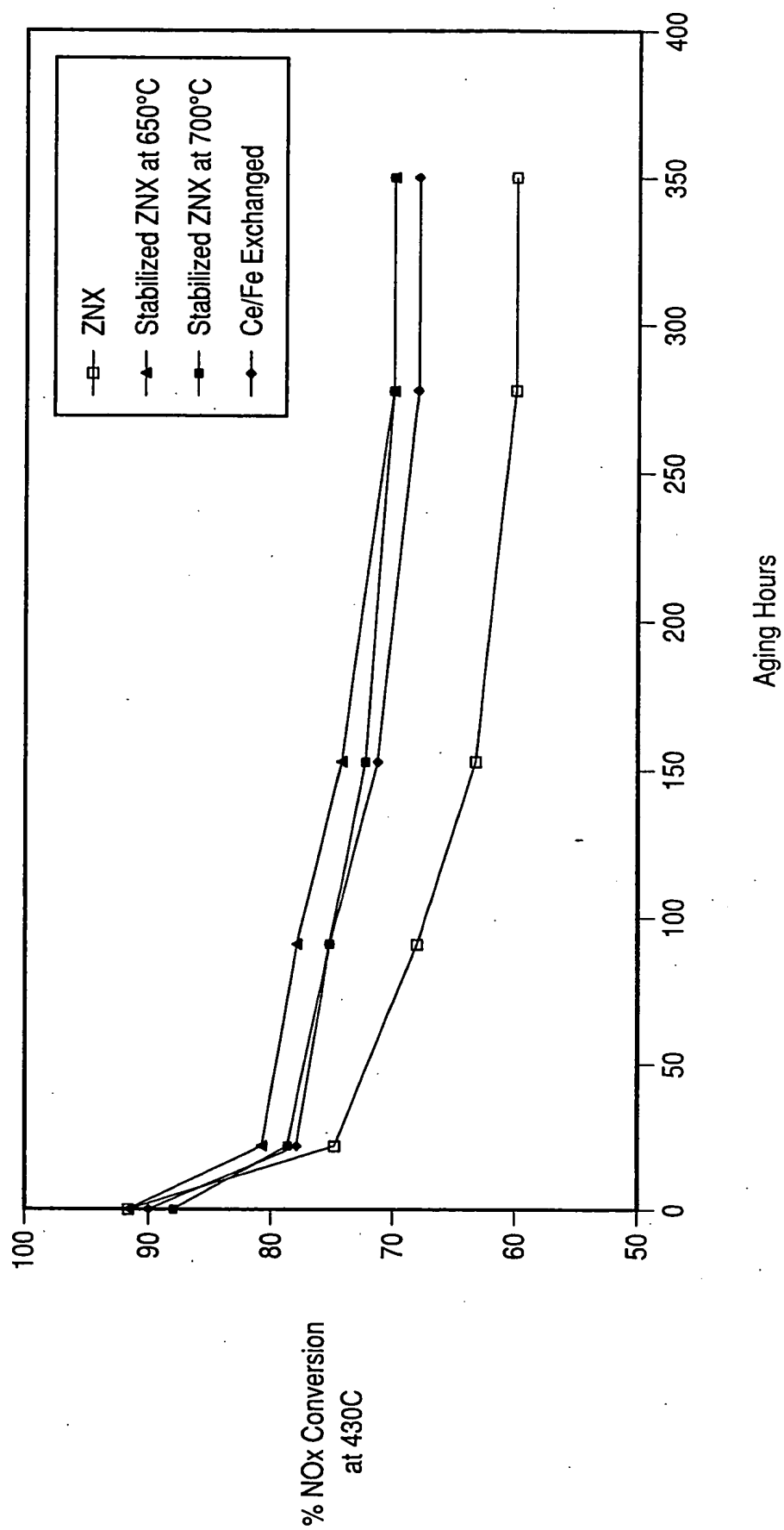


Fig. 4

